Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e. 12 character/inch).

A. PROCESS

Nonradioactive Dangerous Waste Landfill Rev. 4, 6/30/94

FORM 3		DAN	NGER	OUS WASTE PERMIT	APPLICATION  I. EPA/STATE I.D. NUMBE W A 7 8 9 0 0 0 8							
FOR OFF	ICIAL USE C	NLY				'						
APPLICA APPRO		E RECEIVE o., day, & yr.			COMMENTS							
					Pending Appr	oval						
II. FIRST (	OR REVISED	APPLICAT	ION									
application	X" in the app n. If this is yo er in Section	ur first applic	in A or B cation and	below (mark one box only) to indicate who you already know your facility's EPA/STA	ether this is the first applicati ATE I.D. Number, or if this is	on you are submi a revised applica	tting for your facility or a revised tion, enter your facility's EPA/STATE					
	1. EXISTIN		•	v and provide the appropriate date) (See instructions for definition of "existing" Complete Item below.) *FOR EXISTING FACILITIES, PROVIDE	e instructions for definition of "existing" facility.  mplete Item below.)  DR EXISTING FACILITIES PROVIDE THE							
0	1 01	1975		DATE (mo., day, & yr.) OPERATION BEG THE DATE CONSTRUCTION COMMENO the boxes to the left) *The date construction of the Hanford Fac commenced.	CED (use		THE DATE, <i>(mo., day, &amp; yr.)</i> OPERATION BEGAN OR IS EXPECTED TO BEGIN					
B. REVISE	ED APPLICA 1. FACILITY	TION <i>(place</i> HAS AN INT	an "X" be TERIM ST	elow and complete Section I above) FATUS PERMIT 2. FA	CILITY HAS A FINAL PERM	ЛІТ						
III. PROCE	ESS - CODE	S AND CAP	ACITIES									
codes.	. If more lines	s are needed	d, enter th	the list of process codes below that best of the code(s) in the space provided. If a proce the space provided on the (Section III-C).	ess will be used that is not inc							
B. PROC	ESS DESIGI	N CAPACIT	Y - For ea	ach code entered in column A enter the ca	pacity of the process.							
1. AM	10UNT - Ente	er the amour	nt.									
<ol> <li>UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used.</li> <li>Only the units of measure that are listed below should be used.</li> </ol>												
	PROCES	s	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO- CESS CODE	MEASURE FOR PROCESS					
Storage	):				Treatment:							
	INER (barrel	, drum, etc.)		GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR					
TANK WASTE	PILE		S02 S03	GALLONS OR LITERS CUBIC YARDS OR CUBIC METERS	SURFACE IMPOUNDME	ENT T02	LITERS PER DAY GALLONS PER DAY OR LITERS PER DAY					
	CE IMPOUN	DMENT	S04	GALLONS OR LITERS	INCINERATOR TO		TONS PER HOUR OR METRIC TONS PER					
Disposa			Boo	CALLONG OR LITERO			HOUR; GALLONS PER HOUR OR LITERS PER					
INJECT LANDFI	TION WELL		D80 D81	GALLONS OR LITERS ACRE-FEET (the volume that would cover one acre to a depth of one foot)OR	OTHER (Use for physical chemical, thermal or biological)		HOUR GALLONS PER DAY OR LITERS PER DAY					
	APPLICATIOI I DISPOSAL	N	D82 D83	HECTARE-METER ACRES OR HECTARES GALLONS PER DAY OR	treatment processes not occurring in tanks, surfact impoundments or incineration.	ce ators.						
SURFA	CE IMPOUN	DMENT	D84	LITERS PER DAY  Describe the processes in the space provided: Section III-C.)								
LINIT	F MEASURE	MEA	T OF SURE ODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASI	UNIT OF MEASURE JRE CODE					
					<del></del>							
GALLONS G LITERS L		LITERS PER DAY TONS PER HOUR	V ACRE-FEET D HECTARE-M		A ER F							
CUBIC YARDS Y CUBIC METERS C		METRIC TONS PER HOUR GALLONS PER HOUR	W E	ACRES HECTARES	B Q							
GALLONS PER DAY U LITERS PER HOUR H							w.					
EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.												

**B. PROCESS DESIGN CAPACITY** 

LINE NUMBER	CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY			
X-1	S02	600	G				
X-2	T03	20	E				
1	D81	5	A				
2							
3							
4							
5							
6							
7							
8							
9							
10							

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

#### D81

The Nonradioactive Dangerous Waste Landfill (NRDWL) is located approximately 3.5 miles southeast of the 200 East Area. The NRDWL was used for disposal of nonradioactive dangerous waste from January 1975 through May 1985. The NRDWL provided disposal of dangerous waste generated from process operations, research and development laboratories, maintenance activities, and transporatation functions located throughout the Hanford Site. The NRDWL is a 10 acre land disposal unit that consists of 19 unlined trenches (trenches 18N, 24, and 32 were not used for disposal) approximately 400 feet long, 16 feet wide at the base, and 15 feet deep. Six trenches (trenches 19N, 26, 28, 31, 33, and 34) were used for disposal of dangerous waste. Asbestos was disposed of in nine trenches (trenches 2N, 20, 21, 22, 23, 25, 27, 29, and 30). Nonhazardous waste was disposed of in trench 1N, The dangerous waste trenches of NRDWL have a total design capacity of 5 acre-feet.

### IV. DESCRIPTION OF DANGEROUS WASTES

- A. DANGEROUS WASTE NUMBER Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

  ENGLISH UNIT OF MEASURE CODE

  METRIC UNIT OF MEASURE CODE

POUNDS P KILOGRAMS K
TONS T METRIC TONS M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

### D. PROCESSES

#### 1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

- 1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

L	A. DANGEROUS		C. UNIT	D. PROCESSES					
I N NO E .	WASTE NO.	B. ESTIMATED ANNUAL QUANTITY OF WASTE	MEA- SURE (enter code)	1. PROCESS CODES (enter)			8	PROCESS DESCRIPTION     (if a code is not entered in D(1))	
X-1	K054	900	P	T03	D80				
X-2	D002	400	P	T03	D80				
X-3	D001	100	P	T03	D80				
X-4	D002			T03	D80			included with above	
1	D001	24,345	К	D81				Disposal/Landfill	
2	D002	13,433	К	D81				Disposal/Landfill	
3	D003	17,630	К	D81				Disposal/Landfill	
4	D004	1.5	К	D81				Disposal/Landfill	
5	D005	13	К	D81				Disposal/Landfill	
6	D006	933	К	D81				Disposal/Landfill	
7	D007	172	К	D81				Disposal/Landfill	
8	D008	120	К	D81				Disposal/Landfill	
9	D009	102	К	D81				Disposal/Landfill	
10	D010	30	К	D81				Disposal/Landfill	
11	D011	1	К	D81				Disposal/Landfill	
12	D018	305	К	D81				Disposal/Landfill	

		Dangerous waste Land	<i>a</i> 11111, 100	· · ·		Page 4 of 10
13	D019	94	K	D81		Disposal/Landfill
14	D022	31	К	D81		Disposal/Landfill
15	D039	205	K	D81		Disposal/Landfill
16	D040	631	K	D81		Disposal/Landfill
17	F001	960	K	D81		Disposal/Landfill
18	F002	86	K	D81		Disposal/Landfill
19	F003	92	K	D81		Disposal/Landfill
20	F004	8	K	D81		Disposal/Landfill
21	F005	3,622	K	D81		Disposal/Landfill
22	U001	4	K	D81		Disposal/Landfill
23	U002	25	K	D81		Disposal/Landfill
24	U003	5	K	D81		Disposal/Landfill
25	U009	1	K	D81		Disposal/Landfill
26	U012	11	K	D81		
27	U012	362	K	D81		Disposal/Landfill
						Disposal/Landfill
28	U022	180	K	D81		Disposal/Landfill
29	U031	6	K	D81		Disposal/Landfill
30	U044	45	K	D81		Disposal/Landfill
31	U051	20	K	D81		Disposal/Landfill
32	U053	1	K	D81		Disposal/Landfill
33	U056	13	K	D81		Disposal/Landfill
34	U069	3	K	D81		Disposal/Landfill
35	U070	2	K	D81		Disposal/Landfill
36	U077	10	K	D81		Disposal/Landfill
37	U080	50	K	D81		Disposal/Landfill
38	U092	6,800	K	D81		Disposal/Landfill
39	U093	6	K	D81		Disposal/Landfill
40	U107	120	K	D81		Disposal/Landfill
41	U108	80	K	D81		Disposal/Landfill
42	U117	15	K	D81		Disposal/Landfill
43	U122	31	K	D81		Disposal/Landfill
44	U123	82	K	D81		Disposal/Landfill
45	U133	315	K	D81		Disposal/Landfill
46	U134	39	K	D81		Disposal/Landfill
47	U142	1	K	D81		Disposal/Landfill
48	U144	9	K	D81		Disposal/Landfill
49	U151	156	К	D81		Disposal/Landfill
50	U154	21	К	D81		Disposal/Landfill
51	U159	203	K	D81		Disposal/Landfill
52	U161	10	К	D81		Disposal/Landfill
53	U169	8	К	D81	i	Disposal/Landfill
54	U188	3	К	D81		Disposal/Landfill
55	U196	12	К	D81		Disposal/Landfill
56	U201	1	K	D81		Disposal/Landfill
57	U210	205	K	D81		Disposal/Landfill
58	U211	94	K	D81		Disposal/Landfill
59	U213	157	K	D81		Disposal/Landfill
60	U219	13	K	D81		Disposal/Landfill
61	U220	3,404	K	D81		Disposal/Landfill
62	U226	3,404	K	D81		Disposal/Landfill
63	U228	632	K	D81		Disposal/Landfill
64	U239	14	K	D81		Disposal/Landfill
65	P010	1	K	D81		Disposal/Landfill

Ir ii		1			 	
66	P012	1	K	D81		Disposal/Landfill
67	P022	2	K	D81		Disposal/Landfill
68	P030	1	K	D81		Disposal/Landfill
69	P048	5	К	D81		Disposal/Landfill
70	P096	11	К	D81		Disposal/Landfill
71	P098	3	K	D81		Disposal/Landfill
72	P106	2	K	D81		Disposal/Landfill
73	WT01	29,770	K	D81		Disposal/Landfill
74	WT02	18,425	К	D81		Disposal/Landfill
75	WC02	9,060	К	D81		Disposal/Landfill
76	WP01	1,242	K	D81		Disposal/Landfill
77	WP02	55	K	D81		Disposal/Landfill
78	WP03	7	К	D81		Included With Above
79						
80						

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The NRDWL was used from January 1975 through May 1985 for disposal of dangerous waste generated from various Hanford Site operations. The NRDWL ceased receiving dangerous waste for disposal in May 1985. This waste consists of listed waste, waste from nonspecific sources, characteristic waste, and state-only waste.

The quantities of waste identified in Description of Dangerous Waste, item IV.B., represents the estimated total quantity of waste disposed of in the NRDWL, rather than an annual estimate.

## V. FACILITY DRAWING Refer to attached drawing(s).

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

## VI. PHOTOGRAPHS Refer to attached photograph(s).

All existing facilities must include photographs (arial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

# VII. FACILITY GEOGRAPHIC LOCATION This information is provided on the attached drawing(s) and photograph(s).

LATITUDE (degrees	s, minutes, & seconds)	LONGITUDE (degrees, minutes, & seconds)				

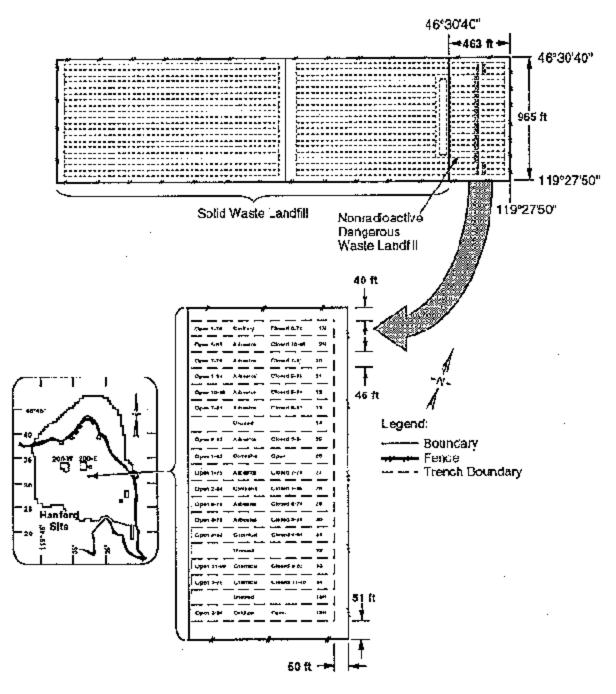
VIII. FACILITY OWNER								
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.  B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:								
1. NAME OF FACILITY'S LEGAL OWNER 2. PHONE NO. (area code & no.)								
3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE					
IX. OWNER CERTIFICATION								
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.								
NAME (print or type)	SIGNATURE	DATE SIGNED						
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	John D. Wagoner	06/30/1994						
X. OPERATOR CERTIFICATION								
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.								
NAME (print or type)	SIGNATURE	DATE SIG	NED					
SEE ATTACHMENT								

# X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

John D. Wagoner	<u>6/30/94</u>
Owner/Operator	Date
John D. Wagoner, Manager	
U.S. Department of Energy	
Richland Operations Office	
Edward S. Keen	6/30/94
Co-Operator	Date
Edward S. Keen, President	
Bechtel Hanford, Inc.	

# **Nonradioactive Dangerous Waste Landfill Site Plan**



For conversions, apply the following: Feet to meters -- multiply feet by 0.3048.

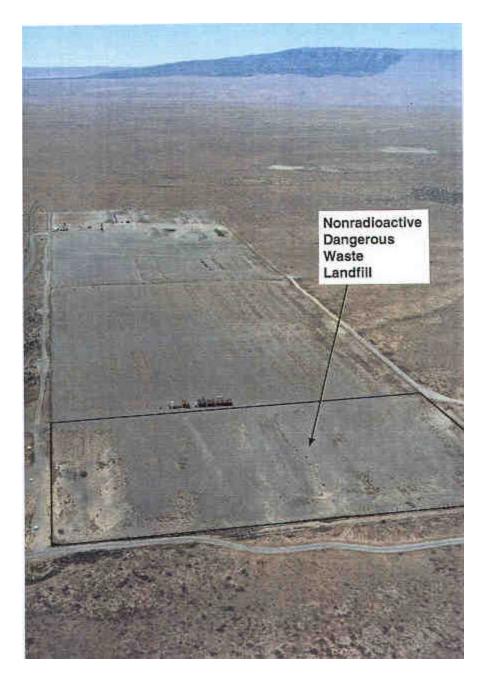
# **NONRADIOACTIVE DANGEROUS WASTE LANDFILL - 600 AREA**



46°30'40" 119°27'50"

8505779-3CN (PHOTO TAKEN 1985)

# NONRADIOACTIVE DANGEROUS WASTE LANDFILL - AERIAL VIEW



46°30'40" 119°27'50"

90062924.1CN (PHOTO TAKEN 1990)